## INPLACE MOISTURE-DENSITY DETERMINATION: SAND CONE METHOD Specified Fraction Control

Location .					· · · · · · · · · · · · · · · · · · ·	<del></del>	· · · · · · · · · · · · · · · · · · ·	Site No.		
Watershe	d				· · · · · · · · · · · · · · · · · · ·	······································		Subwatershed		
Contract I	No		_ Contra	actor						
Tested by	' _ <del></del>		_ Comp	uted by				Checked by	The state of the s	
Test	Date	Location of test					Borrow source, Material			
No.		Station	€ c	ffset	Elevation	1	location, and depth		classification	
				ļ						
								A CONTRACTOR OF THE CONTRACTOR		
Size of so	creen for se	eparation _				Si	ze of sand	d cone		
Test	Date	Spec. requirements (%) Test			sults (%)	Curve		Wet density check		
No.		Moisture range	Compac- tion	Moisture	Compac- tion	No.		1-Point	Curve	
	i		,	:						
								`	,	
Hemarks_			•	•		•	•			
				,						
								·		

		Test No.			
	Volume Determination				
1.	Bulk density of sand (predetermined)				
2.	Initial weight of sand, cone, and container				
3.	Final weight of sand, cone, and container				
4.	Weight of sand in hole, plate, and cone = 2 - 3				
5.	Weight of sand in plate plus cone (predetermined)				
6.	Weight of sand in hole = 4 - 5				
	Volume of hole = 6 + 7				
	Moisture Determination		· · · · · · · · · · · · · · · · · · ·		
	edy moisture meter				
	Dial reading		<del> </del>		
9.	Moisture content (calibration curve)(%)	Contai	ner No.		
C	and to to do do voine. Puint day alachel aven		T		
	nple tested using: quick dry alcohol oven				
	Weight of moist fines plus container				
	Weight of moisture = 10 - 11				
	Weight of moisture				
	Weight of dry fines = (11) - (13)				
	Moisture content = (12) + (4) 100(%)				
	Correction for ignition(%)				
	Corrected moisture content = 15 - 16 (%)				
	Density Determination				
18.	Weight of moist sample plus container				
	Weight of container				
20.	Weight of moist fines¹ plus rock = 18 - 19				
21.	Weight of moist rock and container				
22.	Weight of container				
23.	Weight of moist rock = 2D - 22				
	Weight of moist fines = 20 - 23				
25.	Wet density of rock (predetermined)				
	Volume of rock = 23 + 25				
	Volume of fines = 7 - 26				
	Weight of dry fines = [24+ (100+17)] 100				
	Dry density of fines = 28 + 27				
	Maximum dry density of fines (predetermined)				
31.	Ratio <sup>2</sup> = (29+30) 100(%)		<u> </u>		

Indicate Weight and Volume Units Used in Test

<sup>&</sup>lt;sup>1</sup> Fines are materials smaller than the separating screen specified by the standard method used.

<sup>&</sup>lt;sup>2</sup> Ratio of dry density of fines to maximum dry density.